

# Work Order ID 59502

Friday, June 04, 2010 3:01:24 PM



Page 1

Item ID:	D4004-041	Accept		Setup	Start	
Revision ID:						
Item Name:	Side Restraint Angle				Stop	
Start Date:	6/4/2010	Start Qty:	3.00			
Required Date:	6/10/2010	Req'd Qty:	3.00			
Reference:						

Approvals:	Process Plan:		Date:	10-6-10	Tooling:		Date:	
	QC:		Date:		SPC (Y/N):		Date:	

Run	Start	
	Stop	

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr								
D4004	A								

100		0.00	
-----	--	------	--

	Waterjet		
--	----------	--	--

FLOW CNC Waterjet	2024 .063	Memo	1-Cut as per Dwg (D4004-1F)	0.00	
		Dwg Rev:	A		
		Prog Rev:	A		
		2-Deburr if necessary			

10-6-10

3

110	QC2- Inspect parts off machine FAI/FAIB	0.00	
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	QC		
--	----	--	--

Quality Control		Memo		0.00	
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10-6-10

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

**Work Order ID 59502**

Friday, June 04, 2010 3:01:24 PM



Page 2

Item ID: D4004-041

Accept



Setup Start



Revision ID:

Stop



Item Name: Side Restraint Angle

Start Date: 6/4/2010 Start Qty: 3.00



Cust Item ID:

Required Date: 6/10/2010 Req'd Qty: 3.00



Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start



QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

120

QC8- Inspect parts - second check

0.00



QC

Memo

0.00

SB 10/06/10

(X3)

Quality Control

130

Bend as per dwg

0.00



Brake NC

Memo

0.00

Brake NC

1- Bend D4004-1 as per Dwg  
2- C'sink as per dwg

0.00

SB 10/06/10

SB 10/06/14

(3)

140

QC5- Inspect part completeness to step on W/O

0.00



QC

Memo

0.00

SB 10/06/15

(X3)

Quality Control

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

**Work Order ID 59502**

Friday, June 04, 2010 3:01:24 PM



Page 3

Item ID: D4004-041

Accept



Setup Start



Revision ID:

Item Name: Side Restraint Angle

Stop



Start Date: 6/4/2010 Start Qty: 3.00



Cust Item ID:

Required Date: 6/10/2010 Req'd Qty: 3.00



Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start



QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

150

Chemical Conversion Coat per QSI005 4.1

0.00



HandFinish

Memo

0.00

Hand Finishing

M 10 06 15 (3)

160

Grey Sandtex(Ref:4.3.5.6) per QSI005 4.3

0.00



Powdercoat

Memo

0.00

Powder Coating

M 112588  
Start Time: 325  
Oven Temperature: 320  
Finish Time: 355

(3) BR 10-0-16.

170

QC3- Inspect Part Finish

0.00



QC

Memo

0.00

Quality Control

=) M 10/06/16

3 0

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

**Work Order ID 59502**

Friday, June 04, 2010 3:01:24 PM



Page 4

Item ID: D4004-041

Accept



Setup Start



Revision ID:

Stop



Item Name: Side Restraint Angle

Start Date: 6/4/2010 Start Qty: 3.00



Cust Item ID:

Required Date: 6/10/2010 Req'd Qty: 3.00



Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start



QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

180

0.00



Small Fab

Memo

0.00

Small Fab

Assemble as per dwg

6/5/11/02/24 (3)

190

0.00



QC

QC5- Inspect part completeness to step on W/O

Memo

0.00

Quality Control

6/10/24

(43)

200

0.00



Packaging

Identify as per dwg &amp; Stock Location: 106

Memo

0.00

Packaging

PPR66314

14

ST

6/4/27 (3)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



**Work Order ID 59502**

Friday, June 04, 2010 3:01:24 PM

Page 5

Item ID: D4004-041

Accept

Setup Start

Revision ID:

Stop

Item Name: Side Restraint Angle

Start Date: 6/4/2010 Start Qty: 3.00

Cust Item ID:

Required Date: 6/10/2010 Req'd Qty: 3.00

Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

210

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

11/02/24 JG

MP  
11-02-24

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

Friday, June 04, 2010 3:01:28 PM

Page 1

Work Order ID: 59502

Parent Item: D4004-041

Parent Item Name: Side Restraint Angle

Comments: IPP rev A 09.12.15 new issue Prelim EC verified by:DD IPP Rev:B  
10.05.17 as per ECN10-562 DD verf:

Start Date: 6/4/2010

Required Date: 6/10/2010

Start Qty: 3.00

Required Qty: 3.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M2024T3S.063		Purchased	No			100	sf	144.2000	0.22	0.694737			



2024-T3 .063 sheet

1810-6-10

Location	Loc Qty	Loc Code
MAT22	144.2	
111787	2	
113866	19.2	
114351	123	

113866

D4004-3 Manufactured No



Strut Lock Bracket

180 Each 3.0000 1

3



SB 11/22/23

Location	Loc Qty	Loc Code
ENG	3	B 66635A
55654	3	

3

D4004-7 Manufactured No



Hose Clip

180 Each 5.0000 1

3



2/5/11/02/24

Location	Loc Qty	Loc Code
ENG	5	
55823	5	

3

MS20426AD4-4 Purchased No



Rivet

180 Each 1,252.000 1

3



10-6-17 (3x) SP

Location	Loc Qty	Loc Code
ST316	1252	
15541	1252	

3

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

Friday, June 04, 2010 3:01:28 PM

Page 2

Work Order ID: 59502

Parent Item: D4004-041

Parent Item Name: Side Restraint Angle

Comments: IPP rev A 09.12.15 new issue Prelim EC verified by:DD IPP Rev:B  
10.05.17 as per ECN10-562 DD verf:

Start Date: 6/4/2010

Required Date: 6/10/2010

Start Qty: 3.00

Required Qty: 3.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
MS20426AD4-5		Purchased	No			180	Each	6,050.000	2	6			



Rivet



10-6-17 SL

3x

Location

Loc Qty

Loc Code

ST317

6050

6733

1068

6874

4982

6

Friday, June 04, 2010 3:01:28 PM

Shop Packet Print

Page 2

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

DART AEROSPACE LTD		Work Order: 59502
Description: SDE RESTRAINT ANGLE		Part Number: D4004-041
Inspection Dwg: D4004-1 Rev: A		Page 1 of 1

### FIRST ARTICLE INSPECTION CHECKLIST

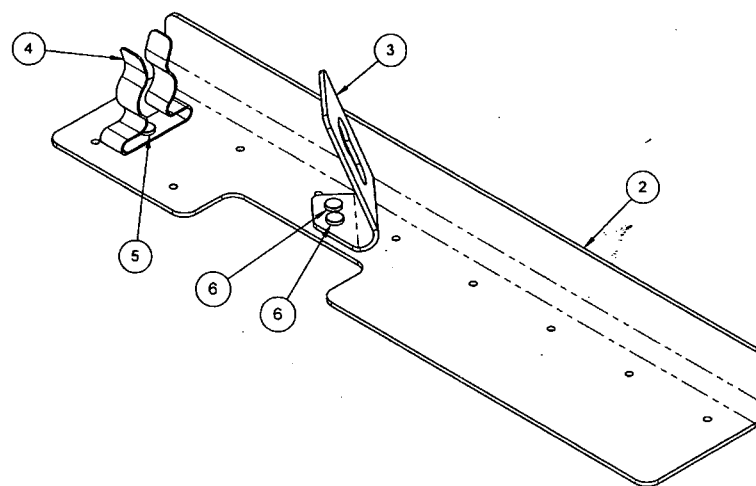
☒ First Article ☐ Prototype

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
Ø .098	+ .004 - .004	.100	✓			
Ø .129	+ .005 - .001	.131	✓			
3.65	± .030	3.652	✓			
.223	± .010	.222	✓			
10.63	± .030	10.641	✓			
2.99	± .030	2.998	✓			
5.79	± .030	5.787	✓			
.87	± .030	.867	✓			
2.40	± .030	2.405	✓			
1.38	± .030	1.380	✓			
.50	± .030	.499	✓			
.79	± .030	.781	✓			
.38	± .030	.372	✓			
.98	± .030	.981	✓			
1.18	± .030	1.18	✓			
1.56	± .030	1.563	✓			
.063	± .010	.063	✓			

Measured by: [Signature]	Audited by: [Signature]	Prototype Approval: N/A
Date: 10-6-10	Date: 10/6/10	Date: N/A

Rev	Date	Change	Revised by	Approved
A		New Issue	KJ/JLM	

ITEM NO.	QTY. -041	PART NUMBER	DESCRIPTION	JOHN CAMERON AVIATION PART NUMBER
1	X	D4004-041	SIDE RESTRAINT ANGLE	JCA-M47-2-19
2	1	D4004-1	SIDE RESTRAINT	
3	1	D4004-3	STRUT LOCK BRACKET	
4	1	D4004-7	HOSE CLIP	
5	1	MS20426AD4-4	RIVET	
6	2	MS20426AD4-5	RIVET	



**D4004-041 SIDE RESTRAINT ANGLE**

**RELEASED**  
R 2010-05-05  
MP

W10: 39502

**NOTES:**

- 1) MATERIAL: N/A
- 2) FINISH: POWDER COAT "GREY SANDETEX" (4.3.5.6) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4004-041" AND B/N USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: 0.21 lbs

A	NEW ISSUE		10.02.10
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.02.10		

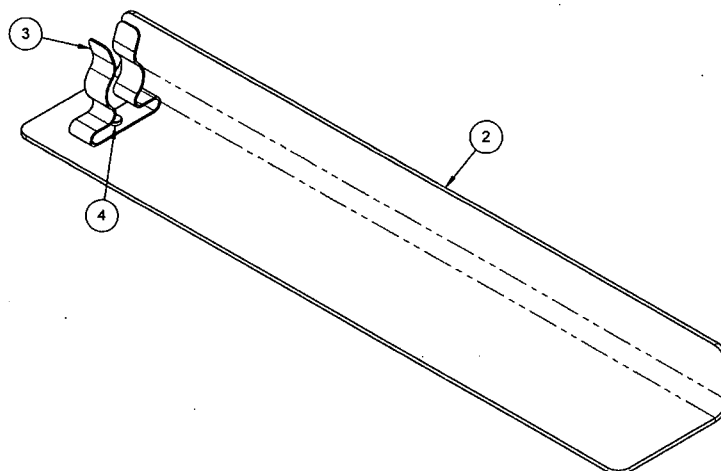
**DART AEROSPACE LTD**  
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. **D4004** REV. A  
TITLE **SIDE RESTRAINT** SCALE NTS

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WRITTEN PERMISSION FROM DART AEROSPACE LTD.



ITEM NO.	QTY. -043	PART NUMBER	DESCRIPTION	JOHN CAMERON AVIATION PART NUMBER
1	X	D4004-043	SIDE RESTRAINT ANGLE AND TIE DOWN POINT	JCA-M47-2-04
2	1	D4004-9	ANGLE	
3	1	D4004-7	HOSE CLIP	
4	1	MS20426AD4	RIVET	



**D4004-043 SIDE RESTRAINT ANGLE AND TIE DOWN POINT**

**RELEASED**  
R 2010-05-05  
*up*

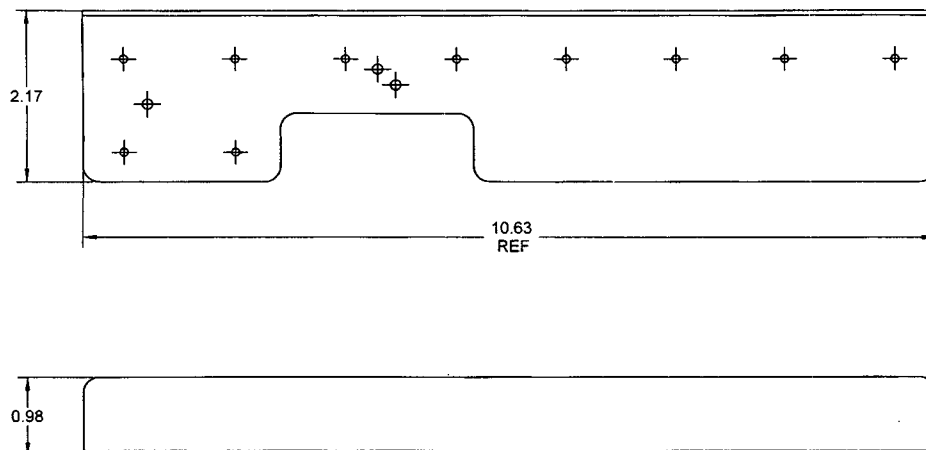
W/O. 59502

**NOTES:**

- 1) MATERIAL: N/A
- 2) FINISH: POWDER COAT "GREY SANTEX" (4.3.5.6) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4004-043" AND B/N USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: 0.20 lbs

DESIGN	<i>JS</i>	<b>DART AEROSPACE LTD</b>	
DRAWN	<i>JS</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>JS</i>	DRAWING NO. <b>D4004</b>	REV. A
MFG. APPR.	<i>JS</i>		SHEET 2 OF 11
APPROVED	<i>JS</i>	TITLE <b>SIDE RESTRAINT</b>	SCALE
DE APPR.	<i>JS</i>		NTS
DATE	10.02.10	<small>COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4004-1	REF JCA-M47-2-19



**D4004-1 SIDE RESTRAINT**

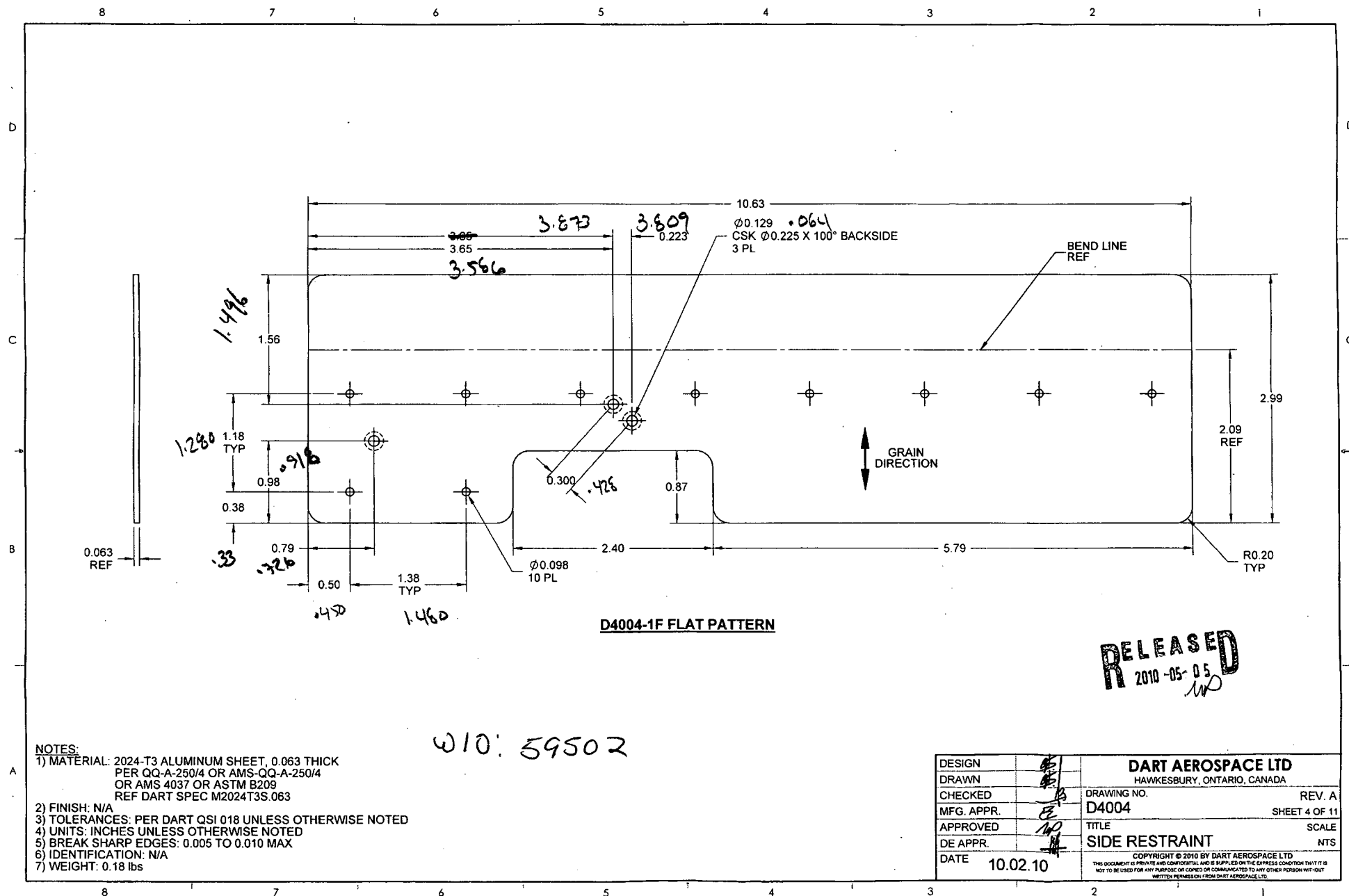
**NOTES:**

- 1) MATERIAL: MADE FROM D4004-1F
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.18 lbs

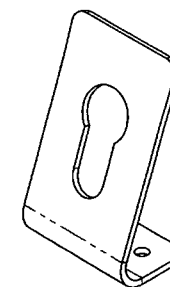
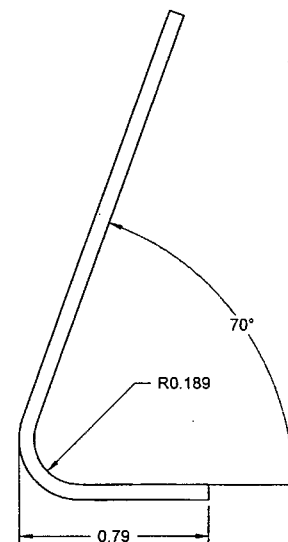
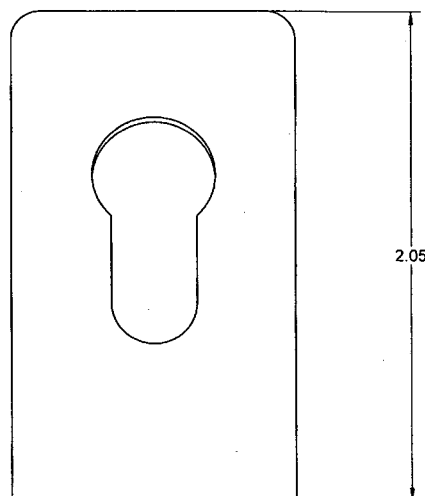
W/O: 59502

DESIGN		<b>DART AEROSPACE LTD</b>	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO. <b>D4004</b>	REV. A
MFG. APPR.			SHEET 3 OF 11
APPROVED		TITLE <b>SIDE RESTRAINT</b>	SCALE
DE APPR.			NTS
DATE	10.02.10	<small>COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

**RELEASED**  
2010-05-05  
MD



DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4004-3	REF JCA-M47-2-19



**D4004-3 STRUT LOCK BRACKET**

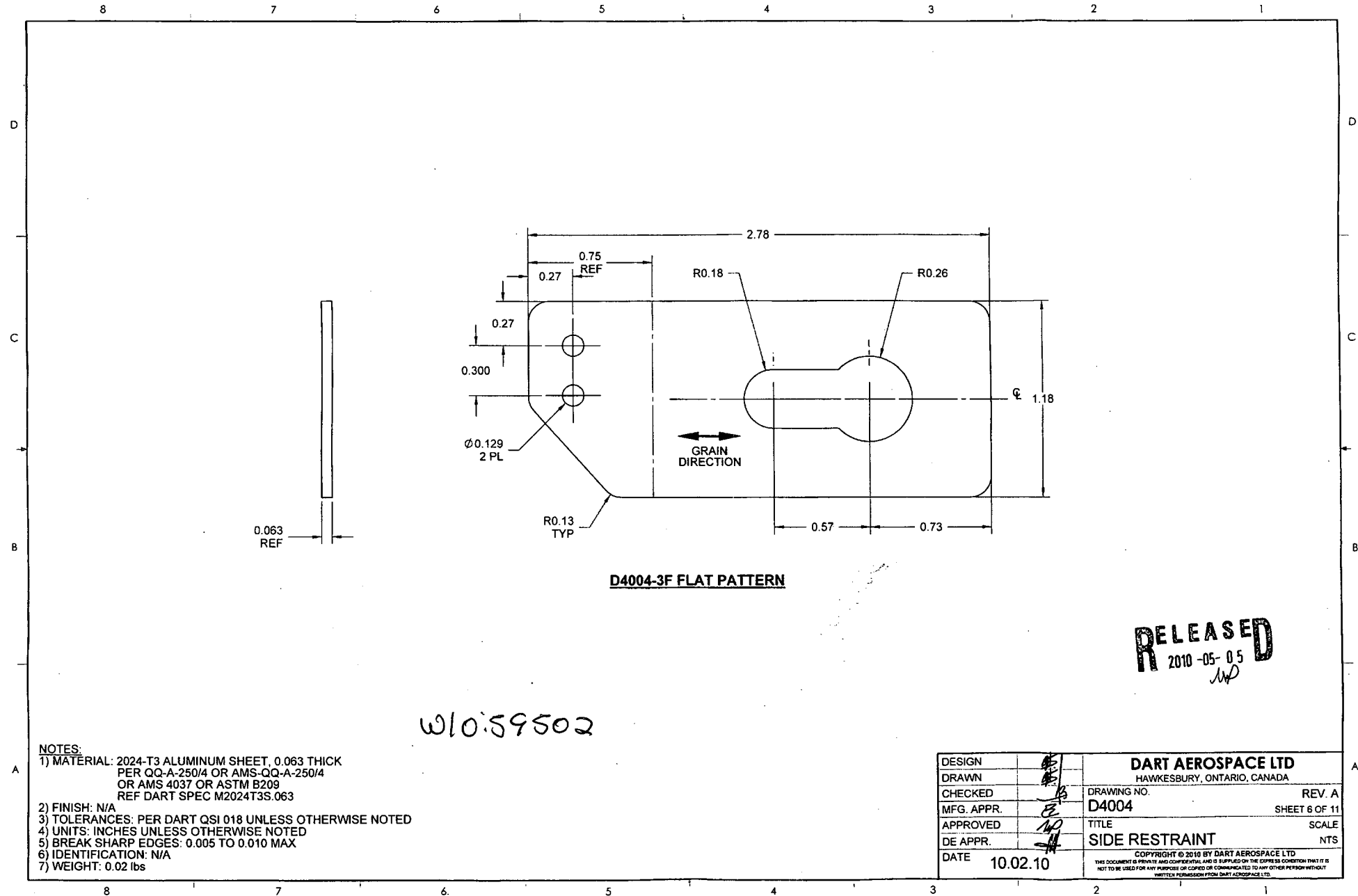
**RELEASED**  
2010-05-05  
MP

W/O. 59502

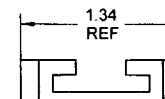
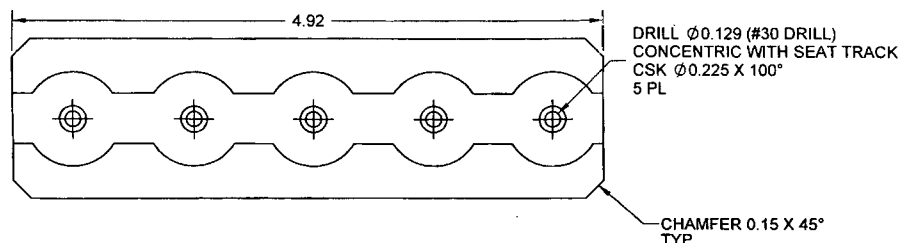
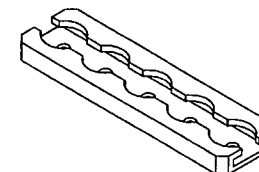
**NOTES:**

- 1) MATERIAL: MADE FROM D4004-3F
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.02 lbs

DESIGN		<b>DART AEROSPACE LTD</b>	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.		<b>D4004</b>	SHEET 5 OF 11
APPROVED		TITLE	SCALE
DE APPR.		<b>SIDE RESTRAINT</b>	NTS
DATE	10.02.10	<small>COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	



DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4004-5	JCA-M47-2-23



# **D4004-5 BOTTOM STRAP ATTACH BRACKET**

**RELEASED**  
2010-05-05

W/O: 59502

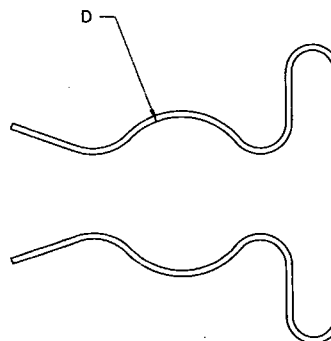
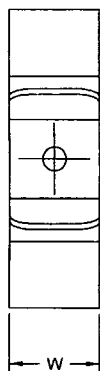
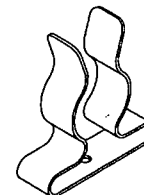
## **NOTES:**

- 1) MATERIAL: MADE FROM ANCRA P/N 40456-11-144 OR BROWNLINE P/N 20276-144-0-0 OR D3033-144
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4004-5" AND B/N USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: 0.14 lbs

DESIGN		<b>DART AEROSPACE LTD</b>	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO. <b>D4004</b>	REV. A
MFG. APPR.			SHEET 7 OF 11
APPROVED		TITLE <b>SIDE RESTRAINT</b>	SCALE NTS
DE APPR.		COPYRIGHT © 2010 BY DART AEROSPACE LTD	
DATE	10.02.10	THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	

DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4004-7	N3 REF JCA-M47-2-19

## SPECIFICATION CONTROL DRAWING



DART PART NUMBER	POSSIBLE SUPPLIER	SUPPLIER PART NUMBER	MATERIAL	FITS TUBE Ø "D"	WIDTH "W"
D4004-7	MCMaster-CARR	1722A42	NICKEL PLATED STEEL	0.31 - 0.75	0.38

D4004-X HOSE CLIP

**RELEASED**  
2010-05-05  
MP

W/O: 59502

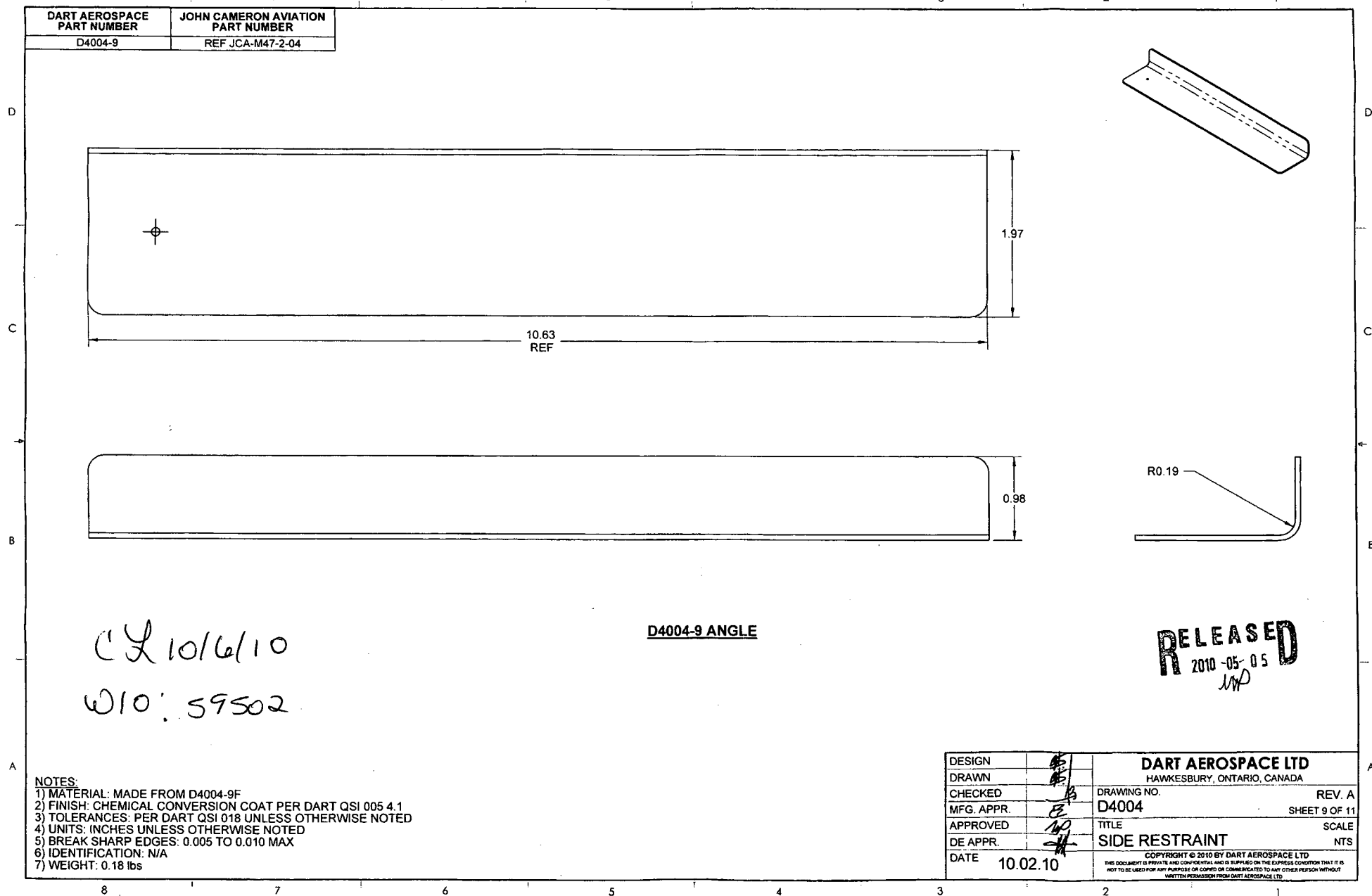
### NOTES:

- 1) MATERIAL: SEE TABLE
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4004-X" USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: 0.01 lbs

DESIGN		<b>DART AEROSPACE LTD</b>
DRAWN		HAWKESBURY, ONTARIO, CANADA
CHECKED		DRAWING NO. <b>D4004</b> REV. A
MFG. APPR.		SHEET 8 OF 11
APPROVED		TITLE <b>SIDE RESTRAINT</b> SCALE NTS
DE APPR.		
DATE	10.02.10	

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DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4004-9	REF JCA-M47-2-04



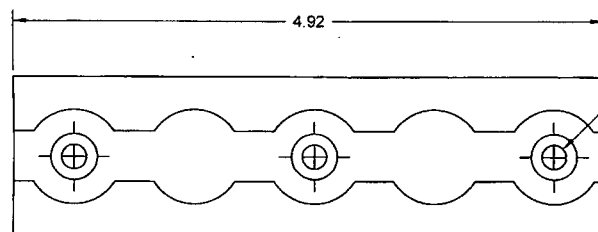
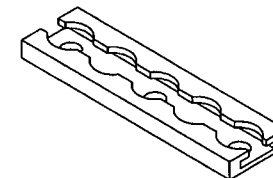
**NOTES:**

- 1) MATERIAL: MADE FROM D4004-9F
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.18 lbs

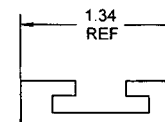
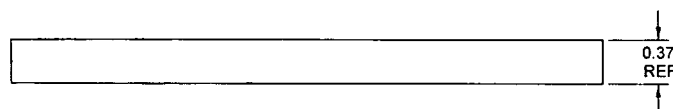




DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4004-11	JCA-M47-2-11



DRILL  $\phi 0.204$  (#6 DRILL)  
CONCENTRIC WITH SEAT TRACK  
CSK  $\phi 0.385 \times 100^\circ$   
3 PL



# **D4004-11 TOP STRAP ATTACH BRACKET**

**RELEASED**  
2010-05-05  
MM

W10' 59502

## **NOTES:**

- 1) MATERIAL: MADE FROM ANCRA P/N 40456-11-144  
OR BROWNLIN P/N 20276-144-0-0  
OR D3033-144
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4004-11" AND B/N USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: 0.14 lbs

DESIGN		<b>DART AEROSPACE LTD</b>	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO. <b>D4004</b>	REV. A
MFG. APPR.			SHEET 11 OF 11
APPROVED		TITLE <b>SIDE RESTRAINT</b>	SCALE
DE APPR.			NTS
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